LF-1 Post-Closure Monitoring
First Quarter Findings (May 1998)

The site monitoring walkover continued to show the landfill covers to be in good condition overall. Maintenance requirements will be scheduled for repair in August 1998. The groundwater sampling results, which were compared to the previous Jacobs sampling rounds and the eight quarters of sampling conducted by Sudhakar, showed concentrations to remain constant. A landfill gas-specific monitoring device (LandTec GEM 500) was used in place of an LEL meter for all gas screening; consequently, previous quarters' gas screening results were not used for comparison in this report.

The gas vent screening indicated the presence of methane emanating from the Post-1970 Cell and the 1970 Cell, and lower levels in the Kettle Hole Cell. The methane concentrations do not exceed those typical of landfill gas. The gas probe screening continued to show elevated levels of methane in the northeast corner of the Post-1970 Cell. In response to comments from the Massachusetts Department of Environmental Protection (DEP) (Draft Annual Report), the gas characterization procedure was modified to include sealing the vent and purging two bore volumes prior to sample collection per DEP's *Landfill Technical Guidance Manual* (May 1997).

As in September 1997, the gas screening results of the photoionization detector (PID) were negative; thus, air samples for characterization were collected from three gas vents at each of the landfills and one gas probe (GP-1). The analytical results for the gas vent samples indicated the presence of low levels of chlorofluorocarbons, toluene, and xylenes in the vents. The analytical data from gas probe GP-1 showed the presence of low levels of contaminants, including vinyl chloride. These results were similar to the characterization results reported for the April and September 1997 sampling. Settlement monitoring was conducted at the same locations which were surveyed in April 1997. According to the review of the survey data by Jacobs surveying coordinator, there were no clear indications of settlement in any of the 23 points compared to the baseline study.

Attached are the following individual components of the monitoring inspection:

- Attachment A - Site Monitoring Report
- Attachment B - Groundwater Results (including previous Sudhakar results)
- Attachment C - Gas Vent and Gas Probe Screening Results
- Attachment D - Gas Characterization Results
- Attachment E - Settlement Survey Results

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Abbreviations to the Tables

J	estimated quantity
LEL	lower explosive limit
mg/L	milligrams per liter
ND	non-detect
NS	not sampled
OVA	organic vapor analyzer
PID	photoionization detector
PPBV	parts per billion by volume
R	rejected value
U	non-detected quantity above method detection limit
µg/L	micrograms per liter

numbers in bold indicate detected analytes

Attachment A

Site Monitoring Report

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Massachusetts Military Reservation
Landfill-1 Site Monitoring and Cap Inspection

Conducted by Darren Smith and Stephen Witzmann
Inspection performed May 28-29, 1998

Perimeter Fence

The perimeter fence is generally in very good condition. The front gate is in need of adjustment. Minor damage to the fence is present at the intersection of Herbert Road and Frank Perkins Road. Repairs had been made to the fence where it appeared to have been cut next to the gate off of Herbert Road (near GVA-53). The gate itself has some new damage. The gate at the intersection of Herbert Road and Turpentine Road was unlocked. All of the gates were left locked following the inspection. The stays designed to keep the gate open at GP 9 and GP 10 are damaged.

Cell A - Post 1970 Cell

The cap on this cell is in excellent condition. The grass on the cap is dense and healthy, but does not need to be mowed at this time. No potentially intrusive vegetation is present. No appreciable subsidence was observed. Previous repairs to animal burrows appear to be working, as no new holes were found.

Cell B - Kettle Hole Cell

The Cell B cap is in very good condition. In general the grass is dense, but a couple of bare spots are present at the top of the cap. The grass along the northern portion of the cell is denser than it was last year. Mowing is not needed at this time. No potentially intrusive vegetation is present. Erosion rills along the northern and southeastern edges have been repaired. No new erosion has taken place but the vegetation has yet to take root. Fertilizer and reseeding is recommended. Minor subsidence may be taking place on the western side of the cell, near GVB-30. No animal burrows were noted, apart from mouse holes.

Cell C - 1970 Cell

The cap on Cell C is in excellent condition. The grass on the cap is dense and healthy. No potentially intrusive vegetation has begun to grow. The erosion repair on the eastern side of the cell should be reseeded. Other than mouse and rat holes, no animal burrows are present.

Gas Vents

All of the gas vents are in fine condition. They are a common location for mouse holes, but there is no apparent damage. All of the vent pipes are vertical.

Drainage Ditches

The drainage ditches are generally functioning according to design. No significant accumulation of sediment was noted.

Along the northern side of the east edge of Cell C, half of a check dam has been washed out. A second check dam just to the south of this one and another check dam on the western edge of Cell A are beginning to erode.

All observed runoff water appeared relatively clean.

Culverts

Organic debris had built up in several of the culverts. The debris needs to be removed to allow for water to flow according to design. No accumulation of sand was noted.

Drainage Basins

The detention basin to the south of Cell C is in excellent condition and working properly. The retention basin to the east of Cell B also appears to be functioning properly. There is some erosion at the bottom of the drainage ways.

Access Roads

The access roads are in excellent condition.

Monitoring Wells

MW 8 appears to have been hit by a vehicle. It is bent over and it will not be possible to sample this well in its present condition.

Borrow Pit and Gravel Pit

Minimal vegetation has begun to take root in these areas.

Attachment B

Groundwater Results

LF-1 Post-Closure Monitoring
27MW0010

	Sudhakar Data (1)								Jacobs (2)				
Analyte	Mar-95 (ug/L)	Jun-95 (ug/L)	Sep-95 (ug/L)	Dec-95 (ug/L)	Mar-96 (ug/L)	Jun-96 (ug/L)	Sep-96 (ug/L)	Dec-96 (ug/L)	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
1,1,1-Trichloroethane	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	NS	ND	ND	ND	ND	R	R	ND	ND	R
2-Hexanone	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	R
Benzene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	NS	ND	ND	ND	ND	R	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	NS	ND	ND	ND	ND	R	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	NS	ND	ND	ND	ND	R	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane									ND	ND	ND	ND	ND
1,2,3,-Trichloropropane									ND	ND	ND	ND	ND
Acrylonitrile									ND	ND	ND	ND	R
Bromochloromethane									ND	ND	ND	ND	ND
Dibromomethane									ND	ND	ND	ND	ND
Iodomethane (Methyl Iodide)									ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether									ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene									ND	ND	ND	ND	ND
Trichlorofluoromethane									ND	ND	ND	ND	ND
Vinyl Acetate									ND	ND	ND	ND	ND
Ethylene Dibromide (EDB)			ND	NS		ND	ND	ND	ND	ND	ND	ND	ND

LF-1 Post-Closure Monitoring
27MW0010

	Sudhakar Data (1)								Jacobs (2)				
Analyte	Mar-95 (ug/L)	Jun-95 (ug/L)	Sep-95 (ug/L)	Dec-95 (ug/L)	Mar-96 (ug/L)	Jun-96 (ug/L)	Sep-96 (ug/L)	Dec-96 (ug/L)	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
Aluminum	300	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	23.9
Antimony	ND	ND	ND	NS	ND	ND	ND	ND	ND	1.6 J	ND	ND	ND
Arsenic	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	ND	ND	ND	NS	ND	ND	ND	ND	3.4 J	4.4 J	3.9 J	3.6 J	4.3
Beryllium	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	ND	ND	ND	NS	ND	ND	ND	ND	2910	2770	2740	2740	2810
Chromium	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	2.6 J	1.3
Cobalt	ND	ND	ND	NS	ND	ND	ND	ND	ND	5.5	4.9 J	5.4	6.2
Copper	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	1.4 J	ND	ND
Iron	490	300	ND	NS	ND	ND	ND	ND	ND1	ND	1430	ND	ND
Lead	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium	ND	ND	ND	NS	ND	ND	ND	ND	1780	1850	1700	1780	1790
Manganese	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	9.1 J	ND	2.9
Mercury	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	NS	ND	ND	ND	ND	1.3 J	ND	1.4 J	1.9 J	ND
Potassium	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	669
Selenium	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	5200	5700	5400	NS	5600	6200	5900	5800	5700	6080	5510	5850	6090
Thallium	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND1	ND	ND	ND
Zinc	ND	ND	26	NS	ND	ND	ND	ND	ND	11.3	16.6	ND	35.4
Cyanide	ND	ND		NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chloride	7.6	ND	8.2	NS	7.2	8.3	ND	ND	7.3	7.7	6.8	7.2	7.6
Nitrate	0.28	0.36	0.44	NS	0.36	ND	0.23	ND	0.32	0.3 J	0.36 J	.26 J	0.23
Sulfate	6.2	6.3	6.3	NS	ND	10	6.1	16.5	6.2	6.1	6 J	5.8	6.8
Total Dissolved Solids	ND	ND	50	NS	39.4	44.2	198	32	33	89	25	14	221
Chemical Oxygen Demand	ND	ND	ND	NS	ND	ND	ND	ND	ND	32	ND	ND	
Field Parameters													
Temperature (C)									12.1	12.8	13.9	11.8	12.8
pH									5.5	5.7	5.7	5.6	4.94
Specific Conductance (mS/cm)									0.06	0.06	0.06	0.06	0.59
Turbidity (NTUs)									41.7	0.8	0.6	0.1	0.6
Dissolved Oxygen (mg/L)									14.7	10.5	14.2	11.7	11.28
Oxid/Red Potential-ORP (mV)									189	320	277	221	215.7

Note: NS - Not Sampled By Sudhakar

(1) Sudhakar Data - Non Validated, Non Qualified.

(2) Jacobs Data - Validated and Qualified.

LF-1 Post-Closure Monitoring
27MW0011C

Jacobs (2)

Analyte	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
1,1,1-Trichloroethane	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	ND	3.2 J	3.6	4	2.7
1,2-Dichloropropane	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	2.1	1.5	1.8	2	1.4
2-Butanone (MEK)	R	R	ND	ND	R
2-Hexanone	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	R
Benzene	ND	ND	ND	ND	0.41
Bromodichloromethane	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND
Bromomethane	R	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	0.7
Chloroethane	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND
Chloromethane	R	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	3.2 J	3.6	4	2.7
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	0.19
Methylene Chloride	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND
Total Xylenes	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND
Vinyl Chloride	1.9 J	1.7	ND	1.3	1.4
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND
1,2,3,-Trichloropropane	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	R
Bromochloromethane	ND	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND	ND
Iodomethane (Methyl Iodide)	ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND
Ethylene Dibromide (EDB)	ND	ND	ND	ND	ND

LF-1 Post-Closure Monitoring
27MW0011C

Jacobs (2)

Analyte	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
Aluminum	ND	ND	ND	ND	ND
Antimony	ND	ND	ND	ND	ND
Arsenic	21	21.2	20.4	22.5	20.6
Barium	29	25.8	35.7	37.8	22.9
Beryllium	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND
Calcium	11400	10300	13100	16800	8410
Chromium	ND	ND	ND	ND	ND
Cobalt	14.5	13.7	17.1	20	9.7
Copper	ND	ND	ND	ND	ND
Iron	90100	97300	121000	118000	68400
Lead	5.7	ND	ND	ND	ND
Magnesium	4300	4150	5800	6440	2740
Manganese	1440	1530	1950	1940	1170
Mercury	ND	ND	ND	ND	ND
Nickel	1.5 J	1.3 J	ND	ND	ND
Potassium	2810	2620	3080	3030	2250
Selenium	ND	ND	4.9J	ND	ND
Silver	ND	ND	ND	ND	ND
Sodium	14500	19000	20500	19500	20900
Thallium	ND	ND	ND	ND	ND
Vanadium	6.1 J	5.7 J	ND	ND	2.8
Zinc	ND	1.2 J	ND	ND	15.3
Cyanide	ND	ND	ND	ND	ND
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chloride	21.4	21	30.3	27.8	28.7
Nitrate	ND	0.094 J	ND	ND	ND
Sulfate	24	34	32.6	29.9	10.6
Total Dissolved Solids	180	300	280	210	149
Chemical Oxygen Demand	31.5	64	ND	ND	ND
Field Parameters					
Temperature (C)	13	14.9	16	12.1	15.9
pH	6.4	6	6.5	6.5	6.4
Specific Conductance (mS/cm)	0.49	0.48	0.59	0.55	0.41
Turbidity (NTUs)	1.4	2.3	0.6	1.4	0.0
Dissolved Oxygen (mg/L)	1.71	0.44	1.6	0.0	0.78
Oxid/Red Potential-ORP (mV)	-111.1	-70.1	-139	-98.9	-99.1

(2) Jacobs Data - Validated and Qualified.

LF-1 Post-Closure Monitoring
27MW0016B

	Sudhakar Data (1)								Jacobs (2)				
Analyte	Mar-95 (ug/L)	Jun-95 (ug/L)	Sep-95 (ug/L)	Dec-95 (ug/L)	Mar-96 (ug/L)	Jun-96 (ug/L)	Sep-96 (ug/L)	Dec-96 (ug/L)	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	9	ND	ND	ND	9	8	4.8	4	5.7 J	3.8	2.1	1.9	0.62
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	R
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	R
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	ND	ND	ND	ND	ND	ND	ND	ND	0.72 J	ND	ND	ND	0.75
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane									ND	ND	ND	ND	ND
1,2,3,-Trichloropropane									ND	ND	ND	ND	ND
Acrylonitrile									ND	ND	ND	ND	R
Bromochloromethane									ND	ND	ND	ND	ND
Dibromomethane									ND	ND	ND	ND	ND
Iodomethane (Methyl Iodide)									ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether									ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene									ND	ND	ND	ND	ND
Trichlorofluoromethane									ND	ND	ND	ND	ND
Vinyl Acetate									ND	ND	ND	ND	ND
Ethylene Dibromide (EDB)	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND

LF-1 Post-Closure Monitoring
27MW0016B

	Sudhakar Data (1)								Jacobs (2)				
Analyte	Mar-95 (ug/L)	Jun-95 (ug/L)	Sep-95 (ug/L)	Dec-95 (ug/L)	Mar-96 (ug/L)	Jun-96 (ug/L)	Sep-96 (ug/L)	Dec-96 (ug/L)	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
Aluminum	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	26	32	25	32	33	28	32	39	36	37.9	32	33.3	31.4
Barium	ND	ND	ND	ND	ND	ND	ND	ND	20.5	23.6	16.7 J	17.2 J	15.8
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	15700	16300	14000	14600	12700	17400	14300	9770	12400	14100	9070	8970	7940
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	15.9	15.3	13.3	14	15.9
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	90000	100000	85700	93800	76300	107000	95900	82700	111000	109000	93200	90700	77100
Lead	ND	ND	4	ND	ND	ND	ND	ND	5.8	ND	1.1 J	ND	ND
Magnesium	ND	ND	ND	ND	ND	ND	ND	ND	5280	6020	4290	2860	3890
Manganese	1420	1370	1220	1230	1070	1540	1280	1260	1790	1680	1460	1440	1260
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	3.5 J	3.5 J	2.1 J	2.9 J	ND
Potassium	ND	ND	ND	ND	ND	ND	ND	ND	2040	2820 J	ND	2060	2230
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	3.1	ND	5.2	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	7800	8500	7200	7100	8600	11900	10500	7800	7490	8010	6710	8000	6190
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	7.6 J	6.7 J	ND	ND	2.9
Zinc	ND	ND	76	ND	ND	ND	ND	ND	24.4	3.5 J	ND	ND	24.8
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	ND
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chloride	11	9.8	11	11	9.3	11	10	ND	10.9	10.9	12.4	11.2	9.6
Nitrate	ND	ND	0.12	0.24	0.16	0.01	0.01	ND	0.085 J	0.086 J	ND	ND	ND
Sulfate	27.5	32.8	29.7	18.4	NA	32.5	29.4	32.1	20.2	24.5	24.5 J	20.4	25.2
Total Dissolved Solids	118	107	110	89.5	99.2	100	45.5	158	210	220	210	160	199
Chemical Oxygen Demand	3.7	ND	19	ND	21.8	ND	ND	ND	ND	ND	ND	ND	ND
Field Parameters													
Temperature (C)									12.9	12.9	13.6	12.6	13.3
pH									6.0	6.2	6.2	6.2	5.9
Specific Conductance (mS/cm)									0.47	0.45	0.40	0.36	0.35
Turbidity (NTUs)									0.67	2.9	-0.4	0.2	0.8
Dissolved Oxygen (mg/L)									0.68	0.17	2.2	0.0	0.24
Oxid/Red Potential-ORP (mV)									80.7	-91.2	-102	-83.9	-48.3

(1) Sudhakar Data - Non Validated, Non Qualified.

(2) Jacobs Data - Validated and Qualified.

LF-1 Post-Closure Monitoring
27MW0016C

	Sudhakar Data (1)								Jacobs (2)				
Analyte	Mar-95 (ug/L)	Jun-95 (ug/L)	Sep-95 (ug/L)	Dec-95 (ug/L)	Mar-96 (ug/L)	Jun-96 (ug/L)	Sep-96 (ug/L)	Dec-96 (ug/L)	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	1	ND	ND	ND	ND	0.67 J	1	1.2	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.69
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	ND	ND	ND	ND	2	ND	ND	ND	2	1.1	ND	ND	0.67
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	13	ND	ND	ND	2	2	3.3	3	5.5	4.1	ND	ND	2
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	R
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	R
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	2	ND	ND	ND	2	1.1	ND	ND	0.67
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	ND	ND	ND	1	ND	ND	ND	ND	0.69 J	ND	ND	ND	0.63
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	3	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	0.46
1,1,1,2-Tetrachloroethane									ND	ND	ND	ND	ND
1,2,3,-Trichloropropane									ND	ND	ND	ND	ND
Acrylonitrile									ND	ND	ND	ND	R
Bromochloromethane									ND	ND	ND	ND	ND
Dibromomethane									ND	ND	ND	ND	ND
Iodomethane (Methyl Iodide)									ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether									ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene									ND	ND	ND	ND	ND
Trichlorofluoromethane									ND	ND	ND	ND	ND
Vinyl Acetate									ND	ND	ND	ND	ND
Ethylene Dibromide (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

LF-1 Post-Closure Monitoring
27MW0016C

	Sudhakar Data (1)								Jacobs (2)				
Analyte	Mar-95 (ug/L)	Jun-95 (ug/L)	Sep-95 (ug/L)	Dec-95 (ug/L)	Mar-96 (ug/L)	Jun-96 (ug/L)	Sep-96 (ug/L)	Dec-96 (ug/L)	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
Aluminum	200	ND	890	ND	ND	ND	ND	ND	ND	ND	ND	30.4 J	30.2
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	20	28	19	ND	22	16	24	27	27.9	27.4	20.8	16.9	24.6
Barium	ND	ND	ND	ND	ND	ND	ND	ND	44.7	42.3	21.7	11.4 J	32
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	15700	14100	13300	13300	8100	6790	10600	9260	15600	14100	6800	3640	12700
Chromium	ND	ND	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	9.3	6	ND	1.4 J	5.9
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	95000	87900	77600	88200	53700	41600	67200	60400	103000	93700	37400	18700	64500
Lead	ND	6	4	ND	ND	ND	4	ND	5.3	ND	ND	ND	ND
Magnesium	ND	ND	ND	ND	ND	ND	ND	ND	4050	3890	1470	680	4070
Manganese	1680	1440	1300	1270	613	436	690	594	1070	968	432	227	736
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	3.8 J	2.2 J	9 J	ND	ND
Potassium	5580	5190	ND	ND	ND	ND	ND	ND	3370	3220	2560	1690	2850
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	8.9 J	ND	ND	ND	ND
Sodium	8300	8800	7100	9200	5600	6000	8600	6300	8320	7860	5280	6210	6270
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	7.1 J	5.9 J	ND	ND	2.3
Zinc	ND	27	42	ND	ND	ND	ND	ND	32.2	1.6 J	ND	ND	28.8
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	ND
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chloride	12	10	10	11	9	9.6	10	10	10.6	9.9	7.8	7.7	9.8
Nitrate	ND	0.1	0.1	0.23	0.15	ND	0.02	ND	0.87 J	R	ND	ND	ND
Sulfate	22.3	17.8	29.8	18	NA	14.4	20.5	25.8	24	26.1	13 J	5.5	25.9
Total Dissolved Solids	121	142	77.4	95.8	75.4	66.1	152	91.8	210	210	96	258	176
Chemical Oxygen Demand	11.3	ND	15	ND	ND	ND	ND	ND	ND	64	ND	ND	ND
Field Parameters													
Temperature (C)									13.3	12.7	13.5	12.4	13.6
pH									6.3	6.2	6.4	4.9	5.4
Specific Conductance (mS/cm)									0.46	0.42	0.21	0.11	0.34
Turbidity (NTUs)									0	0	0.8	0	0.1
Dissolved Oxygen (mg/L)									0.52	0.63	0.45	1.67	1.38
Oxid/Red Potential-ORP (mV)									-80.3	-48.4	-58.5	158	24.5

(1) Sudhakar Data - Non Validated, Non Qualified.

(2) Jacobs Data - Validated and Qualified.

LF-1 Post-Closure Monitoring
27MW0017A

Analyte	Sudhakar Data (1)								Jacobs (2)				
	Mar-95 (ug/L)	Jun-95 (ug/L)	Sep-95 (ug/L)	Dec-95 (ug/L)	Mar-96 (ug/L)	Jun-96 (ug/L)	Sep-96 (ug/L)	Dec-96 (ug/L)	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	3	ND	ND	ND	ND	ND	ND	1.2	1.4	1.5	0.8
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	14	18	12	7	16	11	11	11	8.4	9.3	8.3	7.2	4.7
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	7	ND	ND	ND	16	13	8.1	9	6.4	7.3	4.8	4.6	3
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	R
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	R
Benzene	1	1	ND	ND	1	ND	ND	ND	0.78 J	1	ND	ND	0.47
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	1	1	ND	2	1.5	1.8	1.1	ND	0.41
Chloroethane	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND
cis-1,2-Dichloroethene	14	ND	ND	ND	16	11	ND	11	8.4	9.3	8.3	7.2	4.7
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	1	ND	ND	3	1	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22
Total Xylenes	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	0.58
1,1,1,2-Tetrachloroethane									ND	ND	ND	ND	ND
1,2,3,-Trichloropropane									ND	ND	ND	ND	ND
Acrylonitrile									ND	ND	ND	ND	R
Bromochloromethane									ND	ND	ND	ND	ND
Dibromomethane									ND	ND	ND	ND	ND
Iodomethane (Methyl Iodide)									ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether									ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene									ND	ND	ND	ND	ND
Trichlorofluoromethane									ND	ND	ND	ND	ND
Vinyl Acetate									ND	ND	ND	ND	ND
Ethylene Dibromide (EDB)	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND

LF-1 Post-Closure Monitoring
27MW0017A

	Sudhakar Data (1)								Jacobs (2)				
Analyte	Mar-95 (ug/L)	Jun-95 (ug/L)	Sep-95 (ug/L)	Dec-95 (ug/L)	Mar-96 (ug/L)	Jun-96 (ug/L)	Sep-96 (ug/L)	Dec-96 (ug/L)	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
Aluminum	ND	ND	530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3
Arsenic	ND	10	ND	13	13	15	20	14	15.2	16.7	16.4	15.6	17.6
Barium	ND	ND	ND	ND	ND	ND	ND	ND	37	36.7	34.6	41.8	43.6
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	12700	12500	12300	14700	13900	13000	11600	9890	13800	14300	14300	16300	13800
Chromium	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	37.7	28.9	25.1	26.9	23.7
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.81 J	ND	ND
Iron	132000	136000	128000	157000	164000	155000	155000	127000	148000	137000	129000	135000	116000
Lead	ND	8	8	ND	ND	ND	3	ND	8.4	7.2 J	ND	ND	ND
Magnesium	ND	ND	ND	7100	10900	8590	ND	ND	6990	6600	4730	4360	2440
Manganese	2840	2630	2620	2580	2450	2040	1930	1630	1990	2050	2470	2730	3210
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	4.5 J	3.5 J	2.9 J	4.1 J	ND
Potassium	ND	ND	ND	ND	ND	ND	ND	ND	4300	4540	4410	6280	7930
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 J	5 J	3.5 J	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	11400	12000	10900	12600	9300	11800	11000	9500	10600	11700	9990	10400	10900
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	10 J	8.6 J	ND	ND	4.6
Zinc	ND	20	34	ND	ND	22	22	ND	ND	ND	20.8	ND	16.4
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	ND
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chloride	13	12	11	9	11	12	10	ND	13.7	12.7	11.2	11	13.4
Nitrate	ND	0.17	0.28	0.31	0.24	ND	0.17	ND	0.09 J	0.094 J	ND	ND	ND
Sulfate	1.6	2.1	1.4	0.37	NA	ND	0.78	3.3	ND	0.27 J	ND	ND	ND
Total Dissolved Solids	169	136	115	89.8	117	95.1	193	87.2	210	270	270	93	239
Chemical Oxygen Demand	3.7	7.5	19	ND	10.7	10.9	ND	ND	ND	64	ND	ND	ND
Field Parameters													
Temperature (C)									12.3	12.8	13.1	12.6	12.9
pH									6.4	6.8	6.7	6.8	6.4
Specific Conductance (mS/cm)									0.63	0.61	0.55	0.53	0.53
Turbidity (NTUs)									-6.7	0.4	2.1	0	0.8
Dissolved Oxygen (mg/L)									0.16	0.83	0.79	0.99	0.45
Oxid/Red Potential-ORP (mV)									-122	-145	-133	-117	-106.6

(1) Sudhakar Data - Non Validated, Non Qualified.

(2) Jacobs Data - Validated and Qualified.

LF-1 Post-Closure Monitoring
27MW0017B

	Sudhakar Data (1)								Jacobs (2)				
Analyte	Mar-95 (ug/L)	Jun-95 (ug/L)	Sep-95 (ug/L)	Dec-95 (ug/L)	Mar-96 (ug/L)	Jun-96 (ug/L)	Sep-96 (ug/L)	Dec-96 (ug/L)	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	2	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	6	1	3	2	8	6	6	4	3.7	3.4	3.6	4.4	4.6
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	9	6	3.7	3	2.6	2.2	2.1	2.4	2.5
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	R
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	R
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	1	1	ND	ND	ND	ND	ND	ND	0.35
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND
cis-1,2-Dichloroethene	6	ND	ND	ND	8	6	ND	4	3.7	3.4	3.6	4.4	4.6
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	0.93 J	ND	ND	1.1	0.32
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	0.48
1,1,1,2-Tetrachloroethane									ND	ND	ND	ND	ND
1,2,3,-Trichloropropane									ND	ND	ND	ND	ND
Acrylonitrile									ND	ND	ND	ND	R
Bromochloromethane									ND	ND	ND	ND	ND
Dibromomethane									ND	ND	ND	ND	ND
Iodomethane (Methyl Iodide)									ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether									ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene									ND	ND	ND	ND	ND
Trichlorofluoromethane									ND	ND	ND	ND	ND
Vinyl Acetate									ND	ND	ND	ND	ND
Ethylene Dibromide (EDB)	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND

LF-1 Post-Closure Monitoring
27MW0017B

	Sudhakar Data (1)								Jacobs (2)				
Analyte	Mar-95 (ug/L)	Jun-95 (ug/L)	Sep-95 (ug/L)	Dec-95 (ug/L)	Mar-96 (ug/L)	Jun-96 (ug/L)	Sep-96 (ug/L)	Dec-96 (ug/L)	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
Aluminum	3200	ND	ND	300	ND	ND	ND	ND	ND	ND	ND	ND	19
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	ND	ND	ND	ND	ND	ND	ND	ND	34.2	38.2	34.3	35.4	48.8
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	7200	5800	ND	ND	ND	ND	5320	5660	5580	5290	4760	4930	6130
Chromium	15	ND	ND	ND	ND	24	ND	ND	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	23.3	23.2	20	21	24.2
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	106000	110000	111000	13500	127000	111000	108000	93400	82900	86500	77900	80600	95800
Lead	ND	ND	7	ND	ND	ND	5	ND	4	7.3	2.3	ND	ND
Magnesium	ND	ND	ND	ND	ND	ND	ND	ND	1290	1350	1140	1060	1840
Manganese	1600	1380	1150	1080	978	1040	1260	1330	1240	1260	1120	1140	1500
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	2.2 J	1.8 J	0.99 J	1.9 J	ND
Potassium	ND	ND	ND	ND	ND	ND	ND	ND	3890	4620	4410	4500	6200
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	6800	9400	7200	8000	6900	9300	9400	7200	7560	8570	8340	8740	10100
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	3.4 J	ND	ND	ND	ND
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	5.8 J	5.1 J	ND	ND	3.4
Zinc	ND	27	21	ND	ND	ND	ND	ND	29.4	8.2	17.8	ND	26.5
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	ND
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chloride	10	7.9	10	9	11	12	10	ND	10	9.5	11.2	14.5	20.2
Nitrate	ND	ND	ND	0.18	0.19	ND	0.03	ND	0.88 J	0.092 J	ND	ND	ND
Sulfate	6	4.2	6	4.4	NA	14.6	3.6	15.8	2.6	2.7	2 J	2	4.3
Total Dissolved Solids	135	113	33.9	85.2	56.6	57.3	121	92.6	120	130	140	93	208
Chemical Oxygen Demand	ND	ND	4	ND	10.7	ND	ND	ND	26.2	ND	ND	ND	ND
Field Parameters													
Temperature (C)									12.4	12.7	12.7	12.2	12.9
pH									7.6	6.5	6.4	6.6	6.4
Specific Conductance (mS/cm)									0.37	0.35	0.33	0.32	0.53
Turbidity (NTUs)									-1.7	0	1.5	0	0.8
Dissolved Oxygen (mg/L)									0.06	0.55	2.2	0.44	0.45
Oxid/Red Potential-ORP (mV)									-159	-88	-50.7	-96.5	-106.6

(1) Sudhakar Data - Non Validated, Non Qualified.

(2) Jacobs Data - Validated and Qualified.

LF-1 Post-Closure Monitoring
27MW0020A

	Sudhakar Data (1)								Jacobs (2)				
Analyte	Mar-95 (ug/L)	Jun-95 (ug/L)	Sep-95 (ug/L)	Dec-95 (ug/L)	Mar-96 (ug/L)	Jun-96 (ug/L)	Sep-96 (ug/L)	Dec-96 (ug/L)	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	1.4	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	3	4	4	3	4	ND	ND	4	4.6	4.6	4.7	5.6	5.5
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	17	16	14	10	9	6	7.3	8	4.3	3.4	5.7	5	4.1
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	0.78
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	R
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	R
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND
cis-1,2-Dichloroethene	17	ND	ND	ND	9	6	ND	8	4.3	3.4	5.7	5	4.1
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	4	4	4	4	3	3	2.6	3	2.5	2.2	2.1	2.7	2.2
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	2	2	1	2	2	1	1.4	1	1.4	1.1	1	1.7	1.4
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	0.23
1,1,1,2-Tetrachloroethane									ND	ND	ND	ND	1.2
1,2,3,-Trichloropropane									ND	ND	ND	ND	ND
Acrylonitrile									ND	ND	ND	ND	R
Bromochloromethane									ND	ND	ND	ND	ND
Dibromomethane									ND	ND	ND	ND	ND
Iodomethane (Methyl Iodide)									ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether									ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene									ND	ND	ND	ND	ND
Trichlorofluoromethane									1.9	ND	1.8 J	2 J	1.5
Vinyl Acetate									ND	ND	ND	ND	ND
Ethylene Dibromide (EDB)	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND

LF-1 Post-Closure Monitoring
27MW0020A

	Sudhakar Data (1)								Jacobs (2)				
Analyte	Mar-95 (ug/L)	Jun-95 (ug/L)	Sep-95 (ug/L)	Dec-95 (ug/L)	Mar-96 (ug/L)	Jun-96 (ug/L)	Sep-96 (ug/L)	Dec-96 (ug/L)	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
Aluminum	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.6
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	ND	ND	ND	ND	ND	ND	ND	ND	8.9 J	9 J	8.5 J	8.5 J	7.8
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	9310	10800	10500	11700	11400	12700	12700	11400	14800	14500	13800	14000	12700
Chromium	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9 J	ND	ND
Iron	380	240	180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND	ND
Magnesium	ND	5800	5820	6100	6170	6550	6780	6110	7570	7530	7050	7040	6430
Manganese	ND	ND	ND	ND	ND	ND	ND	ND	9.5 J	8.7 J	8.3 J	8 J	8.9
Mercury	0.4	0.9	0.3	ND	ND	ND	ND	ND	ND	ND	ND	0.31	0.63
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potassium	ND	ND	ND	ND	ND	ND	ND	ND	1310	ND	ND	1050	1210
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	9400	11300	10300	11500	12200	14100	13200	12300	13400	13500	12800	13600	13600
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.4	26.7	ND	16.7
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	ND
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chloride	16	19	20	20	20	21	20	20	20.2	19.4	18.9	17.8	16.1
Nitrate	0.16	0.11	0.17	0.11	0.14	ND	0.01	ND	0.095 J	0.098 J	ND	ND	ND
Sulfate	4.5	3.9	5.8	4	ND	ND	4.6	13.8	5.2	6	5.9	7.1	8.6
Total Dissolved Solids	81.5	85.6	90.2	86.3	112	107	106	110	220	120	100	76	156
Chemical Oxygen Demand	ND	ND	15	ND	ND	10.9	ND	ND	ND	ND	ND	ND	ND
Field Parameters													
Temperature (C)									12.9	13	13.6	12.7	13.9
pH									5.2	5.4	5.4	5.4	5.4
Specific Conductance (mS/cm)									0.19	0.19	0.19	0.17	0.19
Turbidity (NTUs)									2.1	0.85	1.2	0.3	0.9
Dissolved Oxygen (mg/L)									0.33	0.46	6.7	0.10	0.37
Oxid/Red Potential-ORP (mV)									233	238	286	226	251

(1) Sudhakar Data - Non Validated, Non-Qualified.

(2) Jacobs Data - Validated and Qualified.

LF-1 Post Closure Monitoring
27MW0020B

	Sudhakar Data (1)								Jacobs (2)				
Analyte	Mar-95 (ug/L)	Jun-95 (ug/L)	Sep-95 (ug/L)	Dec-95 (ug/L)	Mar-96 (ug/L)	Jun-96 (ug/L)	Sep-96 (ug/L)	Dec-96 (ug/L)	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
1,1,1-Trichloroethane	ND	2	1	2	ND	ND	ND	ND	0.91 J	ND	ND	ND	0.81
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	4	3	3	3	ND	ND	ND	ND	2	2	2	2.2	1.6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	6	6	6	8	10	7	7.2	10	7.6	8.5	7	7.2	8.7
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1	1.5	2	1.8	1.7	1.6	1.5	2
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	R
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	5	ND	ND	ND	ND	R
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND
Carbon Tetrachloride	5	3	3	4	2	ND	2.5	2	2	ND	1.9	2.4	2
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND
cis-1,2-Dichloroethene	6	ND	ND	ND	10	7	ND	ND	7.6	8.5	7	7.2	8.7
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	6	5	4	6	4	3	3.2	3	3	2.5	2.5	2.9	2.5
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	6	5	4	6	4	3	3.5	3	3	2.6	2.4	3.1	2.7
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane									ND	ND	ND	ND	ND
1,2,3,-Trichloropropane									ND	ND	ND	ND	ND
Acrylonitrile									ND	ND	ND	ND	R
Bromochloromethane									ND	ND	ND	ND	ND
Dibromomethane									ND	ND	ND	ND	ND
Iodomethane (Methyl Iodide)									ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether									ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene									ND	ND	ND	ND	ND
Trichlorofluoromethane									0.92 J	ND	ND	ND	0.57
Vinyl Acetate									ND	ND	ND	ND	ND
Ethylene Dibromide (EDB)	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND

LF-1 Post Closure Monitoring
27MW0020B

	Sudhakar Data (1)								Jacobs (2)				
Analyte	Mar-95 (ug/L)	Jun-95 (ug/L)	Sep-95 (ug/L)	Dec-95 (ug/L)	Mar-96 (ug/L)	Jun-96 (ug/L)	Sep-96 (ug/L)	Dec-96 (ug/L)	Apr-97 (ug/L)	Jun-97 (ug/L)	Sep-97 (ug/L)	Dec-97 (ug/L)	May-98 (ug/L)
Aluminum	1600	ND	1170	ND	ND	ND	ND	ND	ND	ND	ND	21.2 J	ND
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	ND	ND	ND	ND	ND	ND	ND	ND	13.4 J	14.4 J	13.6 J	14.3 J	13.1
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	11000	18200	18300	18600	19600	20300	21200	19000	22900	24500	23300	25000	23700
Chromium	16	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.52 J	ND
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	4.9
Iron	3750	300	2190	180	ND	ND	ND	ND	ND	ND	141	ND	157
Lead	ND	ND	ND	ND	ND	ND	4	ND	ND	ND	1.3 J	1.6 J	ND
Magnesium	6620	11400	12000	11200	11900	12500	13700	12300	14200	15500	14800	15400	14600
Manganese	58	26	82	25	27	ND	25	29	30.6	32.6	33.8	30.1	34
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.033
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND	1 J	ND	ND
Potassium	ND	ND	ND	ND	ND	ND	ND	ND	1050	1370	ND	1620	1320
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	10400	13000	11500	12200	12900	12800	12900	11800	12400	13800	13400	14000	13800
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.2	20	ND	ND
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	ND
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chloride	15	16	17	15	15	16	20	20	16.4	15.9	17.5	16.7	14.4
Nitrate	0.11	0.17	0.19	0.23	0.18	ND	0.04	ND	0.091 J	0.094J	ND	ND	ND
Sulfate	5	4	5.3	2.9	ND	ND	2.2	11.9	2.3	2.4	2.1 J	2.1	2.3
Total Dissolved Solids	95.1	89.1	144	114	145	128	140	128	160	150	130	120	114
Chemical Oxygen Demand	ND	ND	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Field Parameters													
Temperature (C)									13.2	14.2	14.1	13.5	14.3
pH									7.8	5.9	5.9	5.8	5.8
Specific Conductance (mS/cm)									0.28	0.27	0.27	0.26	0.28
Turbidity (NTUs)									1.2	1.05	1.2	0.5	3.2
Dissolved Oxygen (mg/L)									0.75	0.75	6.7	0.6	0.36
Oxid/Red Potential-ORP (mV)									103	189	286	166	191

(1) Sudhakar Data - Non Validated, Non Qualified.

(2) Jacobs Data - Validated and Qualified.

Attachment C

Gas Vent and Gas Probe Screening Results

(May 1998)

Post-1970 Cell Gas Vent Screening

	May-98				
VENT LOCATION	LEL (1)	CH_4 (2)	CO_2 (3)	O_2 (4)	PID (5)
GVA51	38	1.8	16.9	4.5	0.0
GVA52	202	10.1	19.8	1.7	0.0
GVA53	70	3.5	19.1	1.4	0.0
GVA54	754	37.7	32.4	17.4	0.0
GVA55	568	28.4	27.9	17.1	0.0
GVA56	488	24.4	28.8	0.5	0.0
GVA57	486	24.2	26.9	1.0	0.0
GVA58	438	23.8	17.9	24.3	0.0
GVA59	622	31.2	31.3	0.9	0.0
GVA60	698	35.4	31.1	2.0	0.0
GVA61	540	25.6	23.9	1.8	0.0
GVA62	622	31.3	27.2	4.2	0.0
GVA63	644	32.4	28.9	1.3	0.0
GVA64	752	37.6	37.6	0.6	0.0
GVA65	430	20.5	28.5	1.0	0.0
GVA66	436	21.8	29.8	0.7	0.0
GVA67	820	41.0	41.0	0.7	0.0
GVA68	808	40.4	40.6	1.3	0.0
GVA69	604	30.1	33.1	8.0	0.0
GVA70	440	22.3	19.7	6.5	0.0

Notes:
(1) LEL - % lower explosive limit
(2) CH_4 - % methane
(3) CO_2 - % carbon dioxide
(4) O_2 - % oxygen
(5) PID - photoionization detector (ppm)

Kettle Hole Gas Vent Screening

	May-98				
VENT LOCATION	LEL (1)	CH_4 (2)	CO_2 (3)	O_2 (4)	PID (5)
GVB30	0	0.0	2.7	11.5	0.0
GVB31	0	0.0	1.0	13.5	0.0
GVB32	2	0.1	5.3	10.2	0.0
GVB33	0	0.0	2.3	11.1	0.0
GVB34	0	0.0	1.6	12.1	0.0
GVB35	0	0.0	0.0	14.9	0.0
GVB36	0	0.0	2.2	12.1	0.0
GVB37	0	0.0	5.3	10.6	0.0
GVB38	0	0.0	0.6	11.5	0.0
GVB39	2	0.1	9.6	8.1	0.0
GVB40	0	0.0	3.0	12.7	0.0
GVB41	0	0.0	0.9	13.3	0.0
GVB42	0	0.0	0.1	13.5	0.0
GVB43	0	0.0	4.4	11.4	0.0
GVB44	0	0.0	0.3	15.9	0.0
GVB45	0	0.0	0.0	13.7	0.0
GVB46	0	0.0	1.9	17.7	0.0
GVB47	0	0.0	1.0	16.9	0.0
GVB48	0	0.0	3.5	15.3	0.0
GVB49	0	0.0	0.7	17.2	0.0
GVB50	0	0.0	1.0	16.0	0.0

Notes:

(1) LEL - % lower explosive limit
(2) CH_4 - % methane
(3) CO_2 - % carbon dioxide
(4) O_2 - % oxygen
(5) PID - photoionization detector (ppm)

1970 Cell Gas Vent Screening Results

	May-98				
VENT LOCATION	LEL (1)	CH_4 (2)	CO_2 (3)	O_2 (4)	PID (5)
GVC01	0	0.0	1.2	18.1	0.0
GVC02	0	0.0	3.3	17.8	0.0
GVC03	0	0.0	6.2	13.4	0.0
GVC04	0	0.0	2.9	14.4	0.0
GVC05	2	0.1	4.5	14.8	0.0
GVC06	0	0.0	1.0	19.2	0.0
GVC07	46	2.3	5.4	8.0	0.0
GVC08	70	3.5	8.4	18.6	0.0
GVC09	62	3.1	14.9	3.2	0.0
GVC10	0	0.0	3.5	15.6	0.0
GVC11	187	8.7	15.7	7.3	0.0
GVC12	248	12.4	20.2	0.7	0.0
GVC13	140	7.0	13.2	6.4	0.0
GVC14	60	3.0	70.2	16.2	0.0
GVC15	8	0.4	0.5	20.0	0.0
GVC16	0	0.0	0.0	13.1	0.0
GVC17	4	0.2	2.9	17.5	0.0
GVC18	8	0.4	2.0	16.4	0.0
GVC19	118	5.9	16.8	0.6	0.0
GVC20	2	0.1	6.1	12.2	0.0
GVC21	0	0.0	0.1	19.9	0.0
GVC22	0	0.0	5.0	16.9	0.0
GVC23	2	0.1	0.6	19.7	0.0
GVC24	0	0.0	0.0	20.2	0.0
GVC25	0	0.0	1.0	12.2	0.0
GVC26	0	0.0	0.2	12.9	0.0
GVC27	0	0.0	0.1	19.8	0.0
GVC28	0	0.0	0.3	18.8	0.0
GVC29	0	0.0	0.3	19.3	0.0
GVC71	14	0.7	3.7	17.7	0.0

Notes:

(1) LEL - % lower explosive limit

(2) CH_4 - % methane

(3) CO_2 - % carbon dioxide

(4) O_2 - % oxygen

(5) PID - photoionization detector (ppm)

Gas Probe Screening Results

	May-98				
Gas Probe Location	LEL (1)	CH_4 (2)	CO_2 (3)	O_2 (4)	PID (5)
GP-01 (10')	410	20.5	26.0	3.2	0
GP-01 (20')	472	23.6	28.9	2.8	0.0
GP-02 (10')	0	0.0	15.7	6.6	0.0
GP-02 (20')	458	22.9	31.4	2.4	0.0
GP-03 (10')	0	0.0	13.4	8.0	0.0
GP-03 (20')	372	18.6	32.7	1.5	0.0
GP-04 (10')	0	0.0	3.4	14.4	0.0
GP-04 (20')	0	0.0	13.7	5.1	0.0
GP-05 (10')	0	0.0	3.1	16.1	0.0
GP-05 (20')	0	0.0	6.5	12.6	0.0
GP-06 (10')	0	2.4	4.1	15.6	0.0
GP-06 (20')	0	4.1	2.4	17.3	0.0
GP-07 (10')	0	4.8	4.1	14.7	0.0
GP-07 (20')	0	2.0	4.8	14.0	0.0
GP-08 (10')	0	2.3	2.0	16.5	0.0
GP-08 (20')	0	2.2	2.3	15.0	0.0
GP-09 (10')	0	0.0	2.2	16.5	0.0
GP-09 (20')	0	0.0	4.8	13.0	0.0
GP-10 (10')	0	0.0	1.1	18.6	0.0
GP-10 (20')	0	0.0	1.2	18.9	0.0
GP-11 (10')	0	0.0	0.9	17.0	0.0
GP-11 (20')	0	0.0	0.8	16.7	0.0
GP-12 (10')	0	0.0	1.1	15.3	0.0
GP-12 (20')	0	0.0	2.3	13.9	0.0

Notes:

(1) LEL - % lower explosive limit

(2) CH_4 - % methane

(3) CO_2 - % carbon dioxide

(4) O_2 - % oxygen

(5) PID - photoionization detector (ppm)

Attachment D

Gas Characterization Results

LF-1 Post-Closure Monitoring - Gas Characterization Results

Location Date Units	27VGA0054 6/18/98 PPBV	27VGA0060 6/18/98 PPBV	27VGA0067 6/18/98 PPBV	27VGB0032 6/18/98 PPBV	27VGB0039 6/18/98 PPBV	27VGB0044 6/18/98 PPBV	27VGC0005 6/18/98 PPBV	27VGC0012 6/18/98 PPBV	27VGC0071 6/18/98 PPBV	27VP0001 6/18/98 PPBV
1,1,1-TRICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHA	ND	ND	ND	ND	ND	ND	ND	ND	ND	87
1,1,2-TRICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	41
1,1-DICHLOROETHENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DIBROMOETHANE (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROTETRAFLUOROETHANE	0.75	ND	ND	ND	ND	ND	ND	ND	ND	120
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	22
1,3-DICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	75
BENZYL CHLORIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BROMOMETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
CHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	1200
CHLOROFORM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLOROMETHANE	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
CIS-1,2-DICHLOROETHYLENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	180
CIS-1,3-DICHLOROPROPENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DICHLORODIFLUOROMETHANE	0.92	0.66	0.6	0.61	0.6	0.63	0.64	0.75	0.66	2100
ETHYLBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROBUTADIENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M,P-XYLENE (SUM OF ISOMERS)	0.57	0.86	0.71	0.47	0.6	0.58	0.58	0.64	0.53	16
METHYLENE CHLORIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
O-XYLENE (1,2-DIMETHYLBENZENE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
STYRENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TETRACHLOROETHYLENE(PCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	42
TOLUENE	0.78	0.86	0.88	0.81	0.89	0.82	1	1	0.99	16
TRANS-1,3-DICHLOROPROPENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHYLENE (TCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
TRICHLOROFLUOROMETHANE	ND	ND	ND	ND	ND	ND	0.71	ND	ND	17
VINYL CHLORIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND	1800

Attachment E

Settlement Survey Results

LF-1 Post-Closure Monitoring
Settlement Survey

	BASELINE DATA				ROUND 3 DATA				CHANGE FROM BASELINE		
GAS VENT	SURVEY DATE	BASELINE NORTHING	BASELINE EASTING	BASELINE ELEVATION (ft)	SURVEY DATE	ROUND 3 NORTHING	ROUND 3 EASTING	ROUND 3 ELEVATION	NORTHING CHANGE	EASTING CHANGE	ELEVATION CHANGE
GVC 1	4/29/97	245490.569	856978.677	130.27	5/19/98	245490.638	856978.554	130.29	-0.07	0.12	-0.02
GVC 3	4/29/97	245655.993	857055.757	135.91	5/19/98	245656.021	857055.729	135.92	-0.03	0.03	-0.01
GVC 7	4/29/97	245930.849	857123.198	142.33	5/19/98	245930.86	857123.219	142.32	-0.01	-0.02	0.01
GVC 9	4/29/97	246033.899	857295.286	149.23	5/19/98	246033.876	857295.313	149.22	0.02	-0.03	0.01
GVC 11	4/29/97	246197.379	857371.344	153.55	5/19/98	246197.339	857371.384	153.54	0.04	-0.04	0.01
GVC 15	4/29/97	246316.841	857371.121	155.96	5/19/98	246316.815	857371.168	155.97	0.03	-0.05	-0.01
GVC 18	4/29/97	246424.482	857368.060	157.53	5/19/98	246424.44	857368.109	157.54	0.04	-0.05	-0.01
GVC 71	4/29/97	246491.535	857400.170	157.68	5/19/98	246491.508	857400.22	157.7	0.03	-0.05	-0.02
GVC 23	4/29/97	246639.428	857400.194	153.69	5/19/98	246639.382	857400.238	153.7	0.05	-0.04	-0.01
GVC 28	4/29/97	246834.568	857444.262	147.57	5/19/98	246834.525	857444.285	147.59	0.04	-0.02	-0.02
GVB 30	4/29/97	247082.030	857916.278	148.51	5/19/98	247082.023	857916.26	148.53	0.01	0.02	-0.02
GVB 33	4/29/97	247019.725	858106.725	159.98	5/19/98	247019.686	858106.768	159.98	0.04	-0.04	0.00
GVB 38	4/29/97	246968.090	858261.475	168.30	5/19/98	246968.051	858261.54	168.28	0.04	-0.07	0.02
GVB 39	4/29/97	246956.246	858298.273	168.45	5/19/98	246956.266	858298.315	168.44	-0.02	-0.04	0.01
GVB 42	4/29/97	246893.985	858487.273	165.48	5/19/98	246893.959	858487.319	165.51	0.03	-0.05	-0.03
GVB 45	4/29/97	246830.512	858678.047	158.61	5/19/98	246830.537	858678.058	158.63	-0.03	-0.01	-0.02
GVB 47	4/29/97	246766.549	858867.417	148.00	5/19/98	246766.563	858867.411	148.03	-0.01	0.01	-0.03
GVA 52	4/29/97	247446.200	858882.920	151.44	5/19/98	247446.187	858882.932	151.45	0.01	-0.01	-0.01
GVA 55	4/29/97	247331.329	859047.400	160.42	5/19/98	247331.343	859047.394	160.43	-0.01	0.01	-0.01
GVA 58	4/29/97	247215.416	859211.486	167.59	5/19/98	247215.425	859211.475	167.6	-0.01	0.01	-0.01
GVA 62	4/29/97	247148.934	859303.806	167.72	5/19/98	247148.947	859303.8	167.74	-0.01	0.01	-0.02
GVA 63	4/29/97	247100.796	859373.968	165.70	5/19/98	247100.808	859373.984	165.73	-0.01	-0.02	-0.03
GVA 68	4/29/97	246983.814	859537.356	156.50	5/19/98	246983.86	859537.36	156.53	-0.05	0.00	-0.03

Notes:

This data compares the first three rounds of semiannual survey results.

The survey points have been recorded in the NAD 27, NGVD 29 System.

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For Reference

Not to be taken from this room

Jonathan Bourne Public Library
19 Sandwich Rd
Bourne MA 02532